



INSTRUMENTATION

Danfoss RT Series

BRAND
Danfoss

SKU
RC_PROD_001

CATEGORY
Instrumentation



OVERVIEW

The Danfoss RT Series is one of the most trusted lines of electromechanical pressure and temperature controls in industrial refrigeration. The series comprises pressure switches, differential pressure switches, pressure switches with neutral zone regulation, and thermostats with room, duct, and capillary tube sensors — all engineered for demanding industrial and marine environments, including dedicated safety pressure switches for steam boiler plants. RT units incorporate a single-pole changeover (SPDT) switch whose contact position depends on the pressure at the connection port (or sensor temperature, for thermostat variants) relative to the set value. Set cut-out pressure and differential remain constant regardless of ambient temperature changes around the control housing, within the permissible ambient range.

KEY FEATURES

Simple, robust electromechanical design
with high accuracy and repeatability

Long operational lifetime
proven over decades in industrial service

SPDT snap-action changeover contacts
resistant to vibration-induced contact bounce

Safety Integrity Level
SIL 2 according to IEC 61508

SPECIFICATIONS

PARAMETER	VALUE
CONTACT FUNCTION	SPDT (single-pole changeover)
REGULATION RANGE (PRESSURE VARIANTS)	Approx. -0.8 to 28 bar depending on model (e.g., RT1A: -0.8–5 bar; RT116: 1–10 bar; RT5: 4–17 bar; RT6S: 10–28 bar)
MAX. WORKING PRESSURE	Up to 22 bar (34 bar for select high-pressure variants)

Refrigeration Controls

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Specifications per manufacturer data; subject to change without notice.

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